

# Electrical Stimulation-Based Sensory Feedback In Phantom Limb Pain Treatment By Bo Geng

By Bo Geng

## **Patent DE4404842A1 - Electrotherapeutic appts -**

Electrical stimulation system and methods for treating phantom limb pain and for providing sensory feedback Electrical stimulation system for treating phantom

<http://www.google.nl/patents/DE4404842A1?cl=en>

## **Human ability in identification of location and -**

pulse number and location when electrical stimulation applied on phantom limb pain through the use Sensory feedback for powered limb

<http://www.jneuroengrehab.com/content/11/1/97>

## **The olympic brain. Does corticospinal plasticity -**

The olympic brain. Does corticospinal plasticity play a role in with phantom limb pain reflex evoked by electrical stimulation of the

<http://onlinelibrary.wiley.com/doi/10.1113/jphysiol.2007.142661/full>

## **Philadelphia Panel Evidence- Based Clinical -**

cervicalgia or phantom limb pain) Evidence-based practice is rapidly transcutaneous electrical nerve stimulation for treatment

<http://ptjournal.apta.org/content/81/10/1641.full>

## **Transcutaneous Electrical Nerve Stimulation ( TENS -**

Jun 25, 2013 Transcutaneous electrical nerve stimulation (TENS) is based on summation of 2 A pilot study of sensory feedback by transcutaneous electrical nerve

<http://emedicine.medscape.com/article/325107-overview>

## **Sensory feedback using electrical stimulation of -**

Sensory feedback using electrical stimulation of the tactile The reviewed stimulators for the afferent system are based on vibration and electrical systems,

<http://citeseerx.ist.psu.edu/showciting?cid=4297303>

## **Effects of home- based sensory and motor amplitude -**

Effects of home-based sensory and motor amplitude electrical stimulation on arm dysfunction in chronic stroke feedback-triggered stimulation. In an attempt to

<http://cre.sagepub.com/content/21/2/142.full.pdf?cited-by=yes&legid=spcre:21/2/142>

## **The moving phantom. Motor execution or motor -**

Group-based treatment for Chronic Pain; Hartwig Siebner and Jens Bo Nielsen in the Control of help in understanding phantom limb pain and in

<http://www.bodyinmind.org/imagined-and-actual-movement-of-phantom-limb/>

## **Harnessing neuroplasticity for clinical -**

The pursuit of neuroplasticity-based interventions to induce electrical stimulation in cortex and to exercise or treatment of asthma based on

<http://brain.oxfordjournals.org/content/134/6/1591>

## **An implantable neural interface with -**

PNS in order to provide a realistic sensory feedback, related to purely electrical stimulation by using focused treatment of phantom limb pain.

<http://www.sciencedirect.com/science/article/pii/S0306987713001783>

### **JNER | Full text | Impacts of selected stimulation -**

Bo Geng 1 \*, Ken Yoshida 1 2 and Electrical stimulation of sensory nerves with skin Effect of sensory discrimination training on cortical reorganisation and

<http://www.jneuroengrehab.com/content/8/1/9>

### **Tactile stimuli pain | definition of tactile -**

Looking for online definition of tactile stimuli pain in the of pain. The stimulation of large sensory fibers phantom limb pain. Treatment.

<http://medical-dictionary.thefreedictionary.com/tactile+stimuli+pain>

### **The Role of Continuous Peripheral Nerve Blocks -**

complex regional pain syndrome or phantom limb treatment of hiccup; note on the electrical Sciatic nerve block performed with nerve stimulation

<http://www.hindawi.com/journals/arp/2012/560879/>

### **HAL publications - DEMAR - Inria -**

As a world-class specialist in distributed databases, Patrick Valduriez has directed three major Inria research projects and has found many applications for his

[http://www.inria.fr/en/teams/demar/\(section\)/publications](http://www.inria.fr/en/teams/demar/(section)/publications)

### **Biofeedback - Wikipedia, the free encyclopedia -**

4.7.5 Phantom-limb pain; sensory feedback from a full bladder replaces the alarm and Dr. deCharms believes this will revolutionize the treatment of chronic pain.

<http://en.wikipedia.org/wiki/Biofeedback>

### **Mirror Box Therapy - Stroke rehabilitation, -**

Mirror Box Therapy is a treatment of phantom limb pain, This is because the visual feedback that mirror therapy provides replaces the sensory feedback that the

<http://www.mirrorboxtherapy.com/>

### **Direct electrical stimulation of the somatosensory -**

Direct electrical stimulation of the somatosensory These results indicate that direct cortical stimulation is a feasible option for sensory feedback with brain

<http://www.ncbi.nlm.nih.gov/pubmed/23665776>

### **Mirror box - Wikipedia, the free encyclopedia -**

move the paralyzed limb, they received sensory feedback an article on phantom limb pain that summarized significant treatment effects of mirror

[http://en.wikipedia.org/wiki/Mirror\\_box](http://en.wikipedia.org/wiki/Mirror_box)

### **Phantom percepts: Tinnitus and pain as persisting -**

Further processing of this sensory stimulation Both symptoms can be transiently masked and relieved by electrical stimulation phantom limb pain

<http://www.pnas.org/content/108/20/8075.long>

### **Rehabilitation Therapy in Neuropathic Pain -**

Rehabilitation Therapy in Neuropathic Pain. Upload. Browse. Sign in Join Upload. Books Audiobooks. Scribd Selects Scribd Selects Audio. Top Books Top Audiobooks. Top

<https://www.scribd.com/doc/256133120/Rehabilitation-Therapy-in-Neuropathic-Pain>

### **Patents - Google Books -**

Electrical stimulation system and methods for treating phantom limb pain and for providing sensory feedback Electrical stimulation system for treating phantom

<http://www.google.com/patents/US4232679>

### **Impacts of selected stimulation patterns on the -**

Phantom-limb pain: determined by cutaneous electrical stimulation. J Pain on the perception threshold in electrocutaneous stimulation

<http://link.springer.com/article/10.1186/1743-0003-8-9>

**Maladaptive plasticity, memory for pain and -**

A number of studies have shown that phantom limb pain is associated stimulation, feedback and pharmacological interventions Series in Dermatological Treatment;

<http://informahealthcare.com/doi/full/10.1586/14737175.8.5.809>

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<http://www.whsmith.co.uk/dept/books-medicine-anaesthetics-02x01640>

**Complex regional pain syndromes: new -**

presence of sweating abnormalities), sensory (pain This strategy is based on concepts developed in patients with phantom limb pain Electrical stimulation

<http://onlinelibrary.wiley.com/doi/10.1111/j.1468-1331.2010.02947.x/full>

**Electrical Stimulation-Based Sensory Feedback in -**

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<http://www.amazon.com/Electrical-Stimulation-Based-Sensory-Feedback-Treatment/dp/8793102674>

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